KCSE COMPUTER PROJECT
NEKTA MANAGEMENT SYSTEM

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NOVA PIONEER TATU GIRLS

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ABBREVIATIONS

ABBREVIATIONS	FULL FORM
OS	Old System
NS	New System
NMS	Nekta Management System
Ksh	Kenya Shilling

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CHAPTER 1:INTRODUCTION

1.1BACKGROUND INFORMATION

NEKTA is a company that deals with beekeeping and selling of honey.The company offers the following services:

- Selling of beehives and associated accessories to bee farmers;
- Setting up of the beehives for the bee farmers;
- Offering of training on beekeeping;
- Buying of honey - related products from farmers for resale.

The company sells beekeeping accessories in three packages namely : single hive , mini package and full package as per the following descriptions:

- A single hive is one beehive and its associated accessories for setting up.
- A mini package consists of six bee hives , harvesting accessories , beehive setting up and training for one person for one day.
- A full package consists of twelve beehives and a honey extract or .It also includes training for two people for one day and honey harvesting kit for two people.

CHAPTER 2 : ANALYSIS

2.1PROBLEM DEFINITION

The problem at hand is to solve a computerized based transaction processing system that would capture and process data about the company's transaction. Currently ,the company uses manual files to maintain records .The growth of farmers and consumers in the organization has resulted in inefficiency and poor management leading to disappointment and dissatisfaction in the company. The company, therefore ,needs to develop a computerized management system that will be able to produce summaries of every individual farmer.

The system should also be able to:

A. Maintain records of:

- ❖ Bee farmers of the company

- Trainee farmers
- Services rendered and products sold by the company
- Payments for each package
- Income from various sales and training services
- Details of purchases from farmers

B. Compute all the operations and arithmetics for each transaction.

C. Provide output information in the form of queries and reports.

2.2 OVERVIEW OF EXISTING OPERATING SYSTEM

The present system is manual where records of farmers and all other transactions are recorded on papers using a pen .All calculations are done using non-scientific calculators. To produce various transactions on farmers in the company , all the transactions have to be summarized on a single sheet before surrendering it to the company manager.

2.3 OVERVIEW OF THE NEW SYSTEM

2.3.1 SYSTEM OVERVIEW

The automated system has been proposed to solve the current issues facing the manual system. This new system will be very effective since it uses computer technology .The many problems faced are mainly technical and this will solve the problems. ___

2.3.2 OBJECTIVES OF THE PROPOSED SYSTEM

- Increase the lifespan of the data kept
- Reduce the amount of money used to buy bulky materials to store information.
- Reduce the rate at which data is incorrectly entered.
- Increase the speed of data input of the organization.
- Perform all the farmer’s transactions and provide output to the company.
- Follow up with the company’s progress

2.3.3 ADVANTAGES OF THE PROPOSED SYSTEM.

- It is faster and reliable-There is faster processing of data hence less glitches will occur.
- High security of data stored in the system- Ensured strict warnings are given during the manipulations of data in the system.
- Time effective- The system consists of various lookup wizards which will help the user during data entry.

2.3.4 DISADVANTAGES OF THE PROPOSED SYSTEM

- System breakdowns - It may be brought up by simple errors and this can lead to huge data losses hence ensuring proper backup of files and records.
- High business expenses - The system requires a lot of electricity supply and other resources.

2.3.5 SCOPE OF THE PROPOSED SYSTEM.

It should be able to generate the following:

1. Generate a list of :
    - Bee farmers
    - Trainee farmers
    - Services rendered and products sold by the company
    - Payments for each package
    - Income from various sales and training services
    - Details of purchases from farmers
2. Compute :
    - Payments for the services offered :
        - ➢ Selling and setting up of beehives and associated accessories to bee farmers

Package	Cost per package (Ksh)
Single hive	**15,000**
Mini package	**120,000**
Full package	**190,000**

- ➢ Training on beekeeping

- Payments made to farmers for honey delivery
    - ➢ Kshs . 900 per KG and Kshs . 1,200 per KG

- Total sales to clients
- Transport earnings

Transport services	**Cost (Kshs)**
Single	2,000 per package
Mini package	20 per km
Full package	25 per km
Accessories	30 per km
Harvesting kit	30 per km
Honey extractor	100 per km

- Income from training
- Total income for the company

3. Generate reports based on :
  - Farmer’s details
  - Trainees programs
  - Products’ stocks balances
  - Transportations
  - Sales made per period
  - Income as per transportations
  - Company’s progress

2.3.6 COSTS AND BENEFITS ANALYSIS

The system has a very large lifespan of about 10 years

System development	250,000/=
Annual running and maintenance cost	50,000/=
Annual additional upgrades and others	75,000/=

The total costs that would be possibly incurred in the total lifespan are;
=250,000 + {(50,000 + 75,000) x 10}
There will be benefits of savings from paperless virtual registration forms which will encounter 30,000/= annually.

2.4 FEASIBILITY STUDY

This study was carefully carried out to ascertain that the new system will have a lot more of benefits than the previous system .The study was carried out according to all the aspects needed to have a clear statement of the new proposed system.

2.4.1 SCHEDULE FEASIBILITY

The new system has disadvantages as well that needed a quick change strategy .

Activity	**Duration**
Problem recognition and definition	1 month
System analysis	2 months
System design and construction	3 months
Implementation and testing	1 month
System review and maintenance	1 month
Total duration	8 months

2.4.2 TECHNICAL FEASIBILITY

Since the company has few computers / desktops and computer skilled staff, there is need to upgrade the current system infrastructure and capacity to use and support the new proposed system.

2.4.3 OPERATIONAL FEASIBILITY

The new system is likely to change the environment due to the training of some employees based on the new system to enable it to work efficiently. It was noted that the system would be user –friendly.

2.4.4 ECONOMIC FEASIBILITY

a) Cost estimations

Category	**Total cost**
Development cost	250,000/=
Maintenance cost	50,000/=
Stationery materials	10,000/=
Ream papers for forms	15,000/=
Total	325,000/=

b) Benefit estimation

Amount due to error reduction : Kshs -50,000/=

Total benefits ÷ Kshs 50,000/=